# Proposal For Validation Metrics

CDM/ISEA Standardization Committee Validation Subcommittee 23 Feb 2000

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### Types of Validations

- Installation (Modernization) supports the installation of new equipment. Examples include:
  - COP
  - Availability Work Packages
  - AIT Packages
- Operational Inspections (Grooms) Examples include:
   PSART
  - CSRR
- Maintenance provides the 'warm-fuzzy' that current configuration data is accurate (i.e. confidence validations) Examplestinclude:
  - SSVA

SVA Confirmations

- 'As Requested'

- etc.

#### Metric #1:

# Overall Effect of Validation Efforts on Allowance Effectiveness

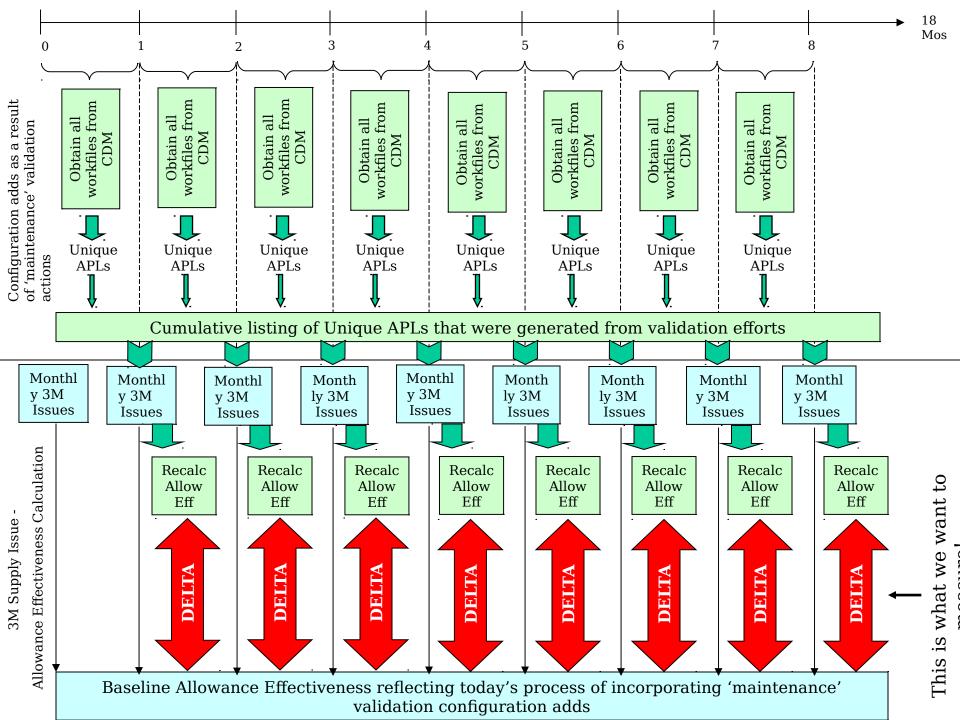
- What is the overall cumulative effect of validations on ships' readiness?
- Allowance Effectiveness is a Fleet-wide accepted metric that is based on the source codes assigned by SNAP when a part is issued
- Offers an indication of how the ship's COSAL allowances (configuration AND allowance computation model) are supporting the ship's readiness
- Allow Eff is calculated using reported 3M parts issues:

(all parts issued with allowances)

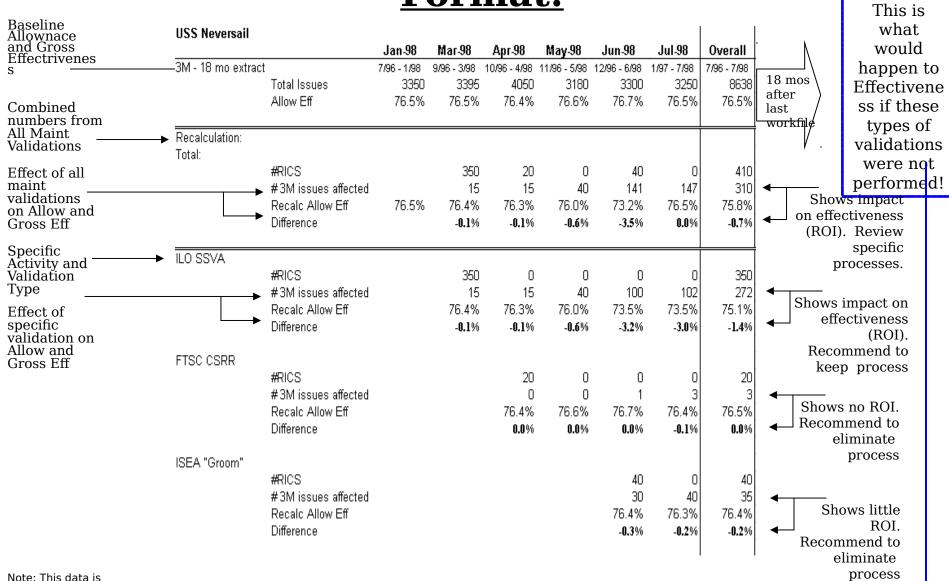
(all parts issued with allowances + all parts issued without allowances)

#### Proposal:

- Obtain validation workfiles from CDMs to determine submitting activity, type of validation, and RIC adds
- Obtain 'rolling' 18 months (1 op cycle) of 3M supply issue data from predetermined start date
- Determine what part issues would have been adversely affected by comparing workfile RIC add to 3M issue APL
- Recalculate Allowance Effectiveness to show impact on effectiveness if the validation had not been done.



Example of Proposed Data and Report Format:



Note: This data is fictitious and does not reflect actual numbers, percentages or

#### Metric #2:

#### Comparison of Allowance Effectiveness during Deployment Cycles

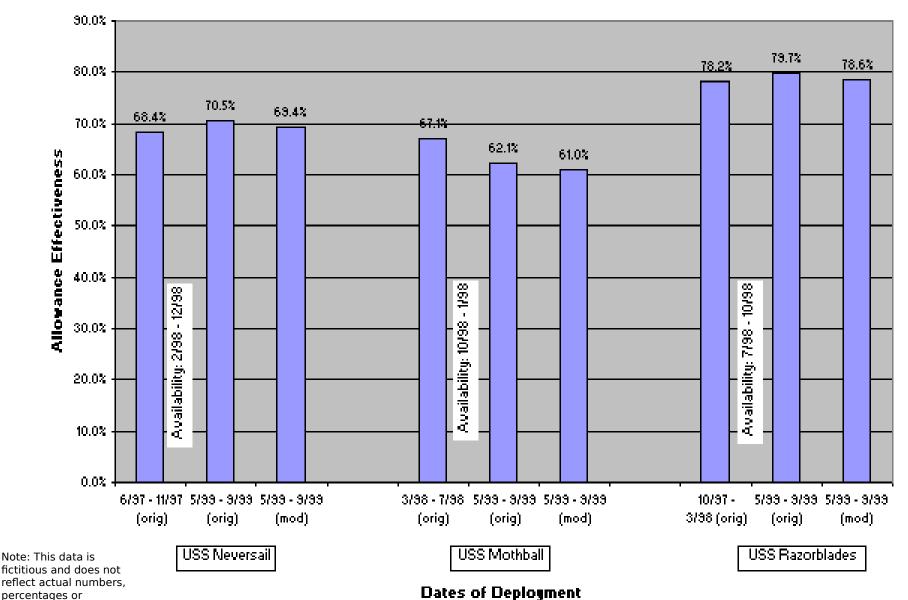
- What is the effectiveness difference between the deployment cycle before and after validations efforts?
- Deployment cycles offer a measure of 'true operational' readiness
  - ship is "on its own"
  - issues won't include grooms, pre-deployment work-ups
- Offers an indication of how the ship's COSAL allowances (configuration AND allowance computation model)
  - were supporting ship's readiness prior to the validation efforts
  - are supporting ship's readiness after the validation efforts

#### Proposal:

- Obtain dates for:
  - deployment prior to last availability
  - last availability
  - deployment after last availability
- Obtain 3M supply issue data for deployments
- Determine what part issues would have been adversely affected by comparing workfile RIC add to 'post availability' 3M issue APLs
- Recalculate Allowance Effectiveness for post availability deployment to show impact on effectiveness if the validation had not been done.

## Example of Proposed Deployment Massuraments

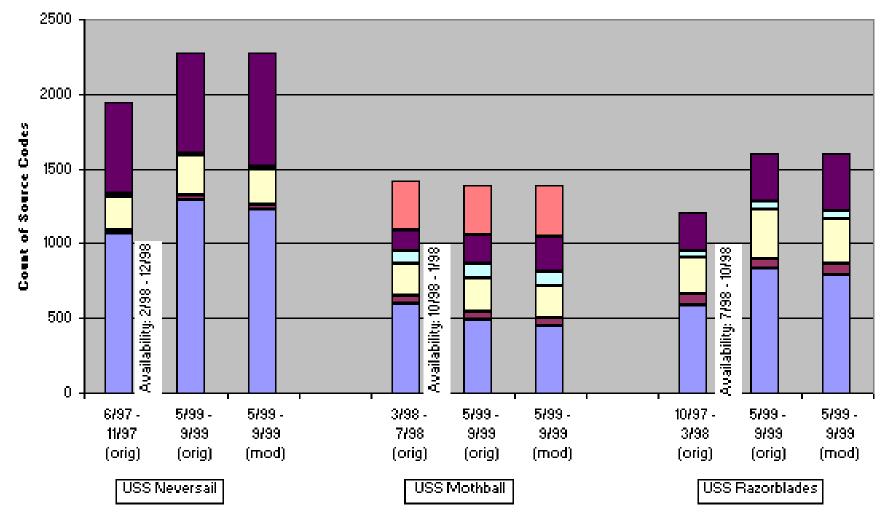
#### Allowance Effectiveness During Deployments



#### Example of Proposed Deployment

### Measurements Average Monthly 3M Issues by Source Code During Deployments





Dates of Deployment

Note: This data is fictitious and does not reflect actual numbers, percentages or